

MAKUSHIN, V.M.

00000063

2/2

Call No.: AF58002

Full Title: FUNDAMENTALS OF MODERN METHODS FOR STRENGTH COMPUTATIONS IN MACHINE-BUILDING. (Computations of dynamic loads. Stability. Creep).

Text Data

Coverage: (continued)

discs and wheels; investigates questions of elastic vibration in connection with various practical problems (harmonic, non-harmonic, quasi-harmonic, non-linear and other types of vibration); and analyzes the strength of elements under variable loads. The second part concerns methods of computing the stability of rods and springs (twisted and compressed-coiled), or rings and flat shapes of curved thin strips, of the elements of thin-wall construction and non-symmetric profiles, of thin rectangular plates, and of rotating casings. The third section analyzes the questions of creep and relaxation of tension, permanent deformation, and aging of parts subjected to the action of high temperatures.

Purpose: A textbook for design engineers in the field of machine building and students of the technical colleges and also for scientific workers.

Facilities: None.

No. Russian and Slavic References: 382 of total 409.

Available: Library of Congress.

MAKUSHIN, V.M.

00000063

PHASE I

Treasure Island Bibliographic Report

BOOK

Call No.: AF58002

Authors: PONOMAREV, S.D.; BIDERMAN, V.L.; LIKHAREV, K.K.; MAKUSHIN, V.M.;
MALININ, N.N.; FEODOS'YEV, V.I.

Full Title: FUNDAMENTALS OF MODERN METHODS FOR STRENGTH COMPUTATIONS IN MACHINE-
BUILDING. (Computations of dynamic loads. Stability. Creep).

Transliterated Title: Osnovy sovremennykh metodov rascheta na prochnost'v
mashinostroyenii. (Raschety pri dinamicheskoy nagruzke,
Ustoychivost'. Polzuchest').

Publishing Data

Originating Agency: None.

Publishing House: (MASHGIZ), State Scientific and Technical Publishing House
of Literature on Machine Building.

Date: 1952

No. pp.: 862

No. copies: 10,000

Editorial Staff

Editor: Prof. Ponomarev, C.D.,
Dr. Eng. Sci.

Technical Editor: None.

Editor-in-Chief: None.

Appraiser: None.

Others: Golovin, S. Y., Eng., editor of literature on heavy machine building.

Text Data

Coverage: The three parts of this book discuss: 1) the strength computation
of various machine elements under dynamic loads, 2) the stability
computation of machine elements, 3) the creep computation of machine
parts working at high temperatures. The first section describes the
computation of the strength of moving machine elements, particularly

PONOMAREV, S. D., BIDERMAN, V. L., LIKHAREV, K. K., MAKUSHIN, V. M., MALININ, N. N.,
FEDOS'YEV, V. I.

Machinery - Construction

"Principles of modern methods of calculating durability of machine construction."
Reviewed by Prof. A.A. Polov. Vest. mash. 31 no. 12, 1951.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

MAKUSHIN, V.D.

Results of biological stimulation of regenerative processes in osteochondropathia of the caput femoris in children. Ortop., travm. i protez. 26 no.1:79 Ja '65. (MIRA 18:5)

1. Iz Sverdlovskogo instituta tuberkuleza (dir. - prof. I.A. Shacklein) i oblastnogo kostnotuberkuleznogo sanatoriya No.7 (glavnyy vrach - V.D. Makushin). Adres avtora: Sverdlovskaya obl. Bobrovskoye pochtovoye otdeleniye, Kostno-tuberkuleznyy sanatoriy No.7.

MAKUSHIN, M.A.; TULENKOVA, A.F.

Solikamsk Combine at the end of 1957. Bum. prom. 33 no.1:16-18 Ja
'58. (MIRA 11:2)

1. Direktor Solikamskogo tsellyulozno-bumazhnogo kombinata (for
Makushin). 2. Nachal'nik Otdela truda i zarplaty kombinata (for
Tulenкова).

(Solikamsk--Paper industry)

ARANZON, V.A., kand. tekhn. nauk; YALPACHIK, G.S., inzh.; MAKUSHIN, G.V.
inzh.

Using a dynamograph in controlling belt tension in contour trans-
missions. Izv. vys. ucheb. zav.; mashinostr. no.1:78-83 '65.
(MIRA 18:5)

1. Melitopol'skiy institut mekhanizatsii sel'skogo khozyaystva.

ARANZON, V.A., kand.tekhn.nauk; MAKUSHIN, G.V., inzh.; YALPACHIK, G.S.,
inzh.

Adjustment and testing of driving belt tension. Vest.mashinostr.
42 no.7:31-34 J1 '62. (MIRA 15:8)
(Belts and belting)

KOSAREV, Aleksandr Aleksandrovich; MAKUSHIN, B.V., retsenzent;
BRAYLOVSKIY, N.G., red.; MEDVEDEVA, M.A., tekhn. red.

[Electrical equipment of metal railroad passenger cars]
Elektrooborudovanie tsel'nometallicheskih passazhirskikh
vagonov. Izd.2. Moskva, Transzheldorizdat, 1962. 346 p.
(MIRA 16:5)

(Railroads--Passenger cars)
(Railroads--Electric equipment)

LIBMAN, A., inzh.; MAKUSHIN, B., inzh.; MIRONYCHEV, G., inzh.

Stand for testing electric motors. Prem. keep. 12 no.9:13 S
'58. (MIRA 11:10)

(Electric motors---Testing)

MAKUSHIN, A. V.

A PORTABLE DISTRIBUTING CENTRE FOR ELECTRIC WELDING APPARATUS. A. V. MAKUSHIN. (AVTO. DELO. 1949, No. 2, pp 28-30) (In Russian) A description is given of a portable distributing centre designed for working in restricted spaces, such as are encountered in the construction of electrical power plant. It is capable of supplying simultaneously three welding transformers, and connections can also be made to enable two welding installations to be worked in parallel. 61

MAKUSHIN, A.V., inzhener.

Load lifting machinery for erecting boiler plants. Mekh.stro1. 4
no.8:12-15 Ag '47. (MLRA 9:2)

1.Uralenergomontazh.
(Hoisting machinery)

METALLURGICAL LITERATURE CLASSIFICATION																									
AUTHOR													TITLE												
NAME													SUBJECT												
15b-7. Reconstruction of a Steam Boiler. (In Russian) A. V. Makushin. Avtoennoe Delo (Welding), Oct. 1947, p. 22-23. Welding repair procedures for a boiler damaged during the war.																									
A. V. MAKUSHIN, A.V.																									
K																									
16																									

SOV/133-58-6-8/33

An Experience in a Combination Secondary Cooling of Continuously Cast Steel Ingots

by decreasing the number of longitudinal internal cracks, which until then were the main deficiency of ingots continuously cast on the works.

There are 4 figures and 3 Soviet references.

ASSOCIATION: Gor'kovskiy politekhnicheskiy institut (Gorkiy Polytechnical Institute) and Zavod "Krasnoye Sormovo" (Krasnoye Sormovo Works)

Card 2/2

1. Open hearth furnaces--Performance 2. Fuel injectors--Applications
3. Noise--Reduction

MAKUSHIN, A. M.

SOV/133-58-6-8/33

AUTHORS: Akimenko, A.D., Candidate of Technical Sciences,
Makushin, A.M., Engineer, Skvortsov, A.A., Candidate of
Technical Sciences and Khripkov, A.V. and Shenderov, L.B.,
Engineers

TITLE: An Experience in a Combination Secondary Cooling of
Continuously Cast Steel Ingots (Opyt kombinirovannogo
vtorichnogo okhlazhdeniya nepreryvnogo slitka stali)

PERIODICAL: Stal', 1958, Nr 6, pp 509-511 (USSR)

ABSTRACT: The use of water sprayers for the secondary cooling of
continuously cast ingots on the "Krasnoye Sormovo" Works was
unsatisfactory as a decrease in the intensity of heat removal
was effected only slightly (due to a narrow range of the
possible control of the consumption of water and unsatisfactory
dispersion of water). In order to remove this deficiency, the
use of pre-formed, two-phase, water-air mixture was proposed. A
description of the set-up for preliminary experiments in which
cooling of a specimen heated to 1 000 - 1 050 °C was investi-
gated (Figures 1, 2) is given. The experimental results
indicated that the use of a water-air mixture will permit
decreasing the consumption of water from 104 to

36 m³/hr (a 65% decrease). A decrease in the intensity of
cooling improved the quality of ingots (Figure 4) in particular

Card 1/2

TERTERYAN, A.A., inzh.; LEYTES, A.V., inzh.; MAKUSHIN, A.A., inzh.;
VEDENYAPINA, I.I., inzh.

Effect of pressure of the traction rolls on continuous steel
casting equipment on the quality of cast slabs. Stal' 21 no.10:
901-902 0 '61. (MIRA 14:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii i zavod "Krasnoye Sormovo".
(Continuous casting)

GEBGARDT, A.G., dotsent; MAKUSHEVSKAYA, G.A., starshiy laborant.

Effect of the concentration factor of micro-organisms on their
propagation. Dop.ta pov.L'viv.un. no.4, pt.2:32 '53. (MLRA 9:11)

(Soils--Bacteriology)

MAKUSHEV, L. G., Candidate Tech Sci (diss) -- "Investigation of the dynamics of a crank link gear". L'vov, 1959. 14 pp (Min Higher Educ Ukr SSR, L'vov Polytech Inst), 150 copies (KL, No 26, 1959, 126)

SOV/124-58-5-5016

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 11 (USSR)

AUTHOR: Makushev, L.G.

TITLE: On Determining the Dynamic Loads in Reciprocating-motion Mechanisms (K voprosu ob opredelenii dinamicheskikh nagruzok mekhanizmov s vozvratno-postupatel'nym dvizheniyem)

PERIODICAL: V sb.: Nekotoryye vopr. dinamiki mashin. L'vov, un-t, 1956, pp 107-118

ABSTRACT: A determination is made of the forces absorbed by the rod of a slider-crank linkage during the idling run at the start of its operation. The angular velocity of the crank is assumed to be constant; all the links of the linkage, excepting the rod, are absolutely rigid; the factors of clearance in the joints, force of friction, and the mass of the rod are neglected. When the foregoing is assumed, determining the forces in the rod reduces to the well-known problem of the vibrating weightless spring, from one end of which a weight is suspended while the other end vibrates harmonically.

Card 1/1 1. Machines--Motion 2. Dynamics 3. Mathematics--Applications 4. Rods--Stresses M.Ya. Kushul'

KOLESOV, Svyatoslav Nikolayevich; VVEDENSKAYA, Lyudmila
Andreyevna; KHARIN, A.N., prof., retsenzent; RUSTAMOV,
Kh.R., prof., retsenzent; RAYTSYN, G.A., dots.,
retsenzent; LOVTSOV, V.M., dots., retsenzent; LIKONTSEV,
N.N., dots., retsenzent; PUTILOVA, I.N., doktor khim.
nauk, prof., red.; MAKUSHENKO, Ye.N., red.

[Laboratory work in general chemistry] Praktikum po ob-
shchei khimii. Izd.2., perer. i dop. Tashkent, Sredniaia
i vysshaia shkola, 1963. 186 p. (MIRA 17:12)

1. Zaveduyushchaya kefedroy khimii Moskovskogo elektro-
tekhnicheskogo instituta svyazi(for Putilova).

L 9892-66 EWT(1)/EWA(h)

ACC NR: AP6000333

SOURCE CODE: UR/0286/65/000/021/0031/0031

INVENTOR: Gubanov, V. P.; Lambert, V. B.; Levelev, A. G.; Makushenko, V. M.; Makhlis, A. I.

ORG: none

TITLE: Dc electronic null indicator. [Announced by the Experimental Design Bureau of Precision Electronic Instrument Making (Opytno-konstruktorskoye byuro pretsizionnogo elektronnoy priborostroyeniya)]. Class 21, No. 176011

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 31

TOPIC TAGS: electronic indicator, null indicator, dc indicator

ABSTRACT: This Author Certificate introduces a dc electronic null indicator which consists of a dc-to-ac inverter with input, output, and modulating coils, an amplifier, a time selector, a difference detector, a balance modulator, and an indicating unit. To increase vibration stability and sensitivity, a sliding element made of a nonmagnetic current-conducting material is placed between the input and output coils of the inverter. The element interacts with the magnetic field of the input coil, the magnetic field in turn is proportional both to the measured current flowing through the coil and to the magnetic field of the modulating coil. The element induces periodic electrical oscillations in the output coil which are then passed to the amplifier input. Orig. art. has: 1 figure.

[JR]

SUB CODE: 09/ SUBM DATE: 17Sep63/ ATD PRESS: 4165

Card 1/1

UDC: 621.3.085.3.024

MAKUSHENKO, V. M.

MAKHLIS, A.I.; MAKUSHENKO, V.M.; GUBANOV, V.P.

Increasing the sensitivity of industrial electronic recording
potentiometers. Zhur. fiz. khim. 30 no.11:2585-2587 N '56.

(MLRA 10:4)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Potentiometer)

USSR/ Chemistry - Recording potentiometers

Card 1/1 Pub. 147 - 25/35

Authors : Makhlis, A. I.; Makushenko, V. M.; and Gubanov, V. P.

Title : Utilization of industrial automatic self-recording electron potentiometers in the role of precision instruments in physico-chem. investigations

Periodical : Zhur, fiz. khim. 30/1, 202-203, Jan 1956

Abstract : The possibility of utilizing industrial EPP-09, EPD-07 automatic potentiometers and other electron potentiometers with sensitivity to a voltage of several millivolts, is discussed. Single- and multi-point electronic potentiometers were found highly suitable in phys-chem. analyses provided their voltage sensitivity was increased many times. This was achieved by modifying the bridge circuit parameters and the parameters of the multi-point input switching device and by increasing the gain factor of the electron amplifier. Wiring diagram.

Institution : Leningrad Chemico-pharmaceutical Institute

Submitted : July 14, 1955

ILLEGIBLE

USSR/General Section

A

Abs Jour : Referat Zhur - Fizika, No 5, 1957, No 10788

of a function is demonstrated. In this device the input signal is transformed into a signal of exponential form, which is then formed into a signal of rectangular form of constant amplitude and of variable duration, which is the logarithmic function of the input voltage. Using voltages of special form it is possible to realize various functional transformations, which can be used to obtain a cycle of mathematical operations in accordance with a given program.

Card 2/2

MAKUSHENKO, V. M.

USSR/General Section

A

Abs Jour : Referat Zhur - Fizika, No 5, 1957, No 10788

Author : Makhlis, A.I., Makushenko, V.M.

Inst : Not given

Title : Electronic Method of Transforming Functional Scales.

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 1, 235-236

Abstract : A method is proposed of parametric functional transformation without using electromechanical devices, based on the use of the time as the transformation parameter. The synchronous occurrence of two processes is used: (1) Comparison of the input voltage with the voltage of a special functional form, as a result of which there is formed a pulse of time selection, whose duration is the special function of the input voltage: (2) Measurement of the voltage of another special form over a period, equal to the duration of the time synchro-pulse. The application of the use of this method to a device that takes the logarithm

Card 1/2

PARASHENKO, V. I.; AVTSYUK, M. I.; GULOV, L. V.

Founding

"Touring systems that unavoidably still up the old system" (V. I. Parashenko "Touring systems")
Reviewed by M. I. Averbukh, V. I. Parashenko, A. V. Pusev. Lit. prod., No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

MAKUSHENKO, N.A.; SHNAREVICH, I.D.

Distribution and ecology of certain species of game animals in
Chernovtsy Province. Nauk.zap.L'viv.nauk.pryrod.mus. AN URSR 3:
77-90 '54. (MLRA 8:5)
(Chernovtsy Province--Game and game birds)

MAKUSHENKO, N. A.

"Capture of the Grey Rat (*Rattus norvegicus* B.) in the Burrow of the Muskrat,"

SO: No. 12, 1949;

"The Interrelationship of the Muskrat and the Grey Rat,"

SO: Priroda, No. 10, 1949.

MAKUSHENKO, N. A.

"Biotic Relations of Muskrat in Natural Biocenoses."
Thesis for degree of Cand. Biological Sci. Sub 23
Feb 49, Moscow Fur and Pelt Inst

Summary 82, 18 Dec 52, Dissertations Presented
For Degrees in Science and Engineering in Moscow in
1949. From Vechernyaya Moskva, Jan-Dec 1949

MAKUSHENKO, M. D.

PA 53/49T37

USSR/Engineering
Fuel Conservation
Coal

Jun 49

"A New Feed Construction for Low-Grade Fuels," M. D.
Makushenko, Engr, 1 p

"Elek Stants" No 6

Designed a new feed, called "scraper-drum," for units using Kirovograd lignite, which is distinguished by its high moisture and ash content. Use of this coal usually causes cementing of the coal tract. Not one case of cementing was observed during 18-month exploitation of this feed using Kirovograd coals of various grades.

53/49T37

MAKUSHENKO, Georgiy Tikhonovich

[Team operations in civil defense fire prevention]
[Deistviia zvena protivopozharnoi zashchity grazhdan-
skoi oborony. Tbilisi, Gos.izd-vo "Sabchota Sakartvelo"]
1963. 74 p. [In Georgian] (MIRA 17:5)

MAKUSHENKO, Georgiy Tikhonovich; KANEVSKAYA, M.D., red.; FAUNSHMIDT,
F.A., tekhn.red.

[The role of fire-fighting units of the local air defense
installations] Deistviia zvena protivopezharnoi zashchity
mestnoi PVO. Moskva, Izd-vo DOSAAF, 1960. 60 p.

(MIRA 13:6)

(Air defenses)

(Fire extinction)

Incendiary Devices and Fire (Cont.)

SOV/1475

TABLE OF CONTENTS:

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1. Incendiary substances	5
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4. Fire-prevention measures	17
5. Requirements of citizens [in accordance with civil defense signals]	28
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AVAILABLE: Library of Congress

Card 2/2

TM/fal
4-30-59

4(4)

PHASE I BOOK EXPLOITATION

SOV/1475

Makushenko, Georgiy Tikhonovich, and Ivan Pavlovich Novichenko

Zazhigatel'nyye sredstva i protivopozharnaya zashchita (Incendiary Devices and Fire Prevention) Moscow, Izd-vo DOSAAF, 1958. 44 p. 75,000 copies printed.

Ed.: Kanevskaya, M.D.; Tech. Ed.: Gerasimova, V.N.

PURPOSE: This book is intended for air-raid defense instructors attached to DOSAAF and may be used by members of air-raid defense organizations.

COVERAGE: The book gives a general description of the characteristics and operating principle of modern incendiary devices, means and methods of fire extinguishment, personal safety techniques and civil defense procedures in case of fires. No personalities are mentioned. There are no references.

Card 1/2

MAKUSHENKO, G.D., inzh.; MATVEYEVA, N.A., inzh. (Riga).

Creativity of efficiency promoters. Put' 1 put. khoz. no.6:27 Je
'59. (MIRA 12:10)
(Railroads--Equipment and supplies)

1. Preparation of the film

The film is prepared by a 0.5-mm thick layer of collodion on one or both sides of a glass plate. The strip is then coated and dried, and passes through a series of rollers before reaching the camera. Although normal strip speeds are used, the film has been developed in a special manner to give the best possible results.

2. Development of the film

3. Fixing of the film

4. Washing of the film

NO REF 2071 000

ENGL: 00

OTHER: 000

1. TITLE: Plasticizing process for sheet steel
 2. AUTHOR: Yu. G. (Candidate of Technical Sciences); Zel'skaya, Yu. G.
 3. SOURCE: tekhniko-ekonomicheskoy informatsii, no. 11, 1961, 10-13
 4. TOPIC: metalloplastic, plastic coating, metal coating, metal surfacing
 5. ABSTRACT: The plasticizing process for sheet steel developed by the
USSR Academy of Sciences is described. The process has been
applied to the production of sheet steel with a significant reduction of
the time for drying and curing of the sheet to 2-4 seconds from the origi-
nally planned 10 seconds. The roll of sheet steel (500-1000 mm wide, up to
3 mm thick) is placed on the entrance drum. The sheet is
then passed through a take-up pit, and degreased elec-
trolytically in sulfuric acid at high temperatures. The sheet then undergoes
thermal treatment in a solution of sulfuric acid, is passivated, washed with brushes,
and a layer of zinc paint is applied on one or both sides, dried at 50-110C,
and annealed at 110-120C. The strip is cooled, then enters the plasticizing
roll.

L 17785-63

ACCESSION NR: AP3005847

dy for all three anthracene derivatives is located in the region of the second peak in the absorption spectrum (reckoning from the long wavelength end) and thus does not agree with the frequency of the O-O transition. The fluorescence efficiency of the methyl derivatives of anthracene increases in the presence of isopentane, whereas the intensity of the fluorescence of 9-diacetylaminoanthracene is sharply reduced by isopentane. It is concluded that the interaction of the excited anthracene derivative molecules with the isopentane molecules does not consist merely of exchange of vibrational energy, but is more complicated and may have some similarity with the interaction of excited solute molecules with solvent molecules. "In conclusion, the authors thank B.S.Neporent for his interest in the work." Orig.art.has: 6 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 05Nov62

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: PH

NO REF SOV: 021

OTHER: 003

Card 2/2

1 1785-63

EPT(s)/EWI(s)/RDS ASD Pt-4 RM/WW/MAY

ACCESSION NR: AP3005847

S/0051/63/015/002/0237/0244

AUTHOR: Klochkov, V.P.; Makushenko, A.M.

TITLE: Influence of extraneous gases on the fluorescence spectra and yields of anthracene derivatives in the vapor state

SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 237-244

TOPIC TAGS: fluorescence spectrum, fluorescence efficiency, anthracene derivative, isopentane, luminescence quenching, energy transfer

ABSTRACT: B.S. Neporent and his coworkers (numerous references are cited) in studying the influence of extraneous gases on the fluorescence of compounds with complex spectra discovered a number of interesting effects which were attributed mainly to exchange of vibrational energy. The present authors investigated the influence of isopentane on the fluorescence spectra and fluorescence efficiency of 9-methyl-, 9,10-dimethyl- and 9-diethylaminoanthracene in the vapor state. The fluorescence spectra of the anthracene derivatives at different temperatures and pressures with and without isopentane are shown. The inversion frequencies were determined from the changes in the shape and position of the fluorescence spectra as a result of admission of isopentane into the vapor chamber. The inversion frequen-

Card 1/2

L 13097-63

ACCESSION NR: AP3003411

cy of the first two compounds increases. This anomalous behavior is attributed to increase of the probability for radiative transitions from higher vibrational levels with no appreciable increase of the probability for nonradiative transitions. The authors also discuss the reasons for the observed red shift of the absorption and fluorescence spectra with rising temperature. Values of the fluorescence efficiency and oscillator strengths at different temperatures are tabulated. "In conclusion the authors thank B.S. Neporent for his attention to the work." Orig. art. has: 5 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 5Nov62

DATE ACQ: 30Jul63

ENCL: 00

SUB CODE: PH.CH

NO SOV REF: 017

OTHER: 007

Card 2/2

I 13097-61

EPR(c)/BDS/EWT(m) Pr-L RM/WW

ACCESSION NR: AP3003411

S/0051/63/015/001/0052/0060

AUTHOR: Klochkov, V.P.; Makushenko, A.M.

57
56

TITLE: Temperature dependence of the intensity and shape of the absorption and fluorescence spectra of anthracene derivatives in the vapor state

SOURCE: Optika i spektroskopiya, v.13, no.1, 1963, 52-60

TOPIC TAGS: fluorescence, absorption spectrum, anthracene derivative, oscillator strength, 9-methylaminoanthracene, 9-10-dimethylaminoanthracene, 9-diacetylaminoanthracene

ABSTRACT: Results obtained by N.G.Bakshiyev, V.P.Klochkov, B.S.Neporent and A.S.Cherkasov (Optika i spektroskopiya, 12, 582, 1962) indicate that one can expect an anomalous temperature behavior of the fluorescence yield for some anthracene derivatives. For most substances in the vapor state the fluorescence efficiency falls with increasing temperature owing to increase of the probability for nonradiative transitions. Accordingly, the authors investigated the temperature behavior of the intensity and shape of the absorption and fluorescence spectra of gaseous 9-methyl-, 9,10-dimethyl- and 9-diacetylaminoanthracenes in the range to about 350°. The spectra at different temperatures are shown in figures. The fluorescence efficiency of the last compound decreases with rising temperature, but the efficien-

Card 1/2

KLOCHKOV, V.P.; MAKUSHENKO, A.M.

Effect of foreign gases on the spectra and fluorescence yield of
vapors of anthracene derivatives. Opt. i spekt. 15 no.2:237-244
Ag '63. (MIRA 17:1)

MAKUSH, A. I.

USSR/Medicine - Veterinary

FD-1316

Card 1/1 : Pub 137-16/22

Author : Smirnov, A. M., Candidate of Veterinary Sciences; Elina, Z. N. and Kuznetsova, L. T., Senior Veterinary Physicians; Makush, A. I., Acting Senior Veterinary Physician of the Sovkhoz "Udarnik;" Milovidova, E. G., Student

Title : Treatment of calves that are ill with dyspepsia of A-hypovitaminosis etiology

Periodical : Veterinariya, 9, 49, Sep 1954

Abstract : Natural gastric juice of horses was successfully used in the treatment of calves that had dyspepsia of A-hypovitaminosis etiology; its use as a prophylaxis prevented the development of dyspepsia in calves born with symptoms of A-hypovitaminosis. Combination therapy, consisting of natural gastric juice of horses and either sintomycin or disulfan, is recommended. No mortality was recorded among calves that were treated with gastric juice of horses.

Institution : Leningrad Veterinary Institute

Submitted :

MAJUS, S., FUTEKUSKI, A.

Influence of rapeseed maturity on the composition of rape oil. p, 123.

ROCEZNIKI TECHNOLOGII I CHEMII ZYWNOST. JOURNAL OF FOOD TECHNOLOGY AND CHEMISTRY.
(Polska Akademia Nauk. Komitet Technologii i Chemii Zywosci) Warszawa,
Poland. Vol. 3, 1958.

Monthly List of East European accession (FEAI), IC. Vol. 3, No. 9, September,
1959. Uncl.

~~ZDZISLAW, MAKUS~~
 MAKUS, ZDZISLAW

POLAND/Chemical Technology - Chemical Products and Their
 Application, Part 3. - Fats and Oils, Waxes, Soaps,
 Detergents, Flotation Agents.

H-24

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22867

Author : Antoni Rutkowski, Zdzislaw Makus

Inst : "

Title : Influence of Technological Processes on Nourishing Value
 of Vegetable Fats.

Orig Pub : Przem. spozywczy, 1957, 11, No 8, 333-337

Abstract : It is shown that the decrease of the nourishing value of
 vegetable fats takes place mainly at the processes of re-
 fining and solidification, therefore, these processes must
 be carried out especially carefully. Parameters influen-
 cing the nourishing value of vegetable fats are presented.

Card 1/1

H-22

COUNTRY : Poland
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 72785

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : subsequent determination of fat stability and content of tocopherol, which could not be done under field conditions. These determinations were carried out one month after collection of the samples. Before starting the analyses the ether was driven off in a current of CO₂. It was found that lipase activity decreased steadily with the maturation of S, and in proportion to increase of S-solids. As the S mature, notwithstanding the concurrent increase in content of unsaturated acids, the resistance of the oil to autoxidation increases, evidently due to increasing content of tocopherol acting as a natural antioxidant. A study was made of the effect of changes in lipase activity and

CARD: 2/3

H-25

COUNTRY : Poland
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 72785

AUTHOR : Rutkowski, A.; Makus, Z.; Stefaniuk, A.

INST. :

TITLE : The Influence of the Degree of Maturity of Rapeseed on Stability of the Oil.

ORIG. PUB. : Roczn. technol. i chem. zywn., 1957, 2, 91-99

ABSTRACT : The investigations were conducted daily over the period from 10 to 27 July 1957, i.e., over a time interval from green stage to complete maturity of the seed. (S). Samples of collected S were purified immediately after removal from the plants. A portion of the S was used for determination of the water content; the remainder was ground in a porcelain mortar. In the resulting paste were determined the moisture content and lipase activity, which was expressed in ml 0.1 N KOH used-up to neutralize free fatty acids formed by hydrolysis of the fat, within 24 hours at 30°, per 1 g of rapeseed paste. A portion of the paste was covered with petroleum ether (boiling range 40-60°), for

CARD: 1/3

MAKUS, Robert, inz.

Development of the Warsaw railway junction. Przegl techn
no.6:6-7 10 F '63.

MAKUS, R.

Under the banner of May Day. p. 161

Some problems of designing big railroad stations. p. 172. PRZEGLAD
KOLEJOWY (Wydawnictwa Komunikacyjne) Warszawa. Vol. 7, no. 5, May 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 4, no. 12, December 1955

MAKUS, R.

Erasing the work of local freight trains. p. 208. (PRZEGLAD KOLEJOWY, Vol. 6, No. 6, June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Incl.

MAKUROV, M.A.

Mathematical substantiation for calculating switch curve ordinates
from a chord. Put' 1 put.khoz. 4 no.9:33-34 S '60. (MIRA 13:9)

1. Nachal'nik proyektno-izyskatel'skoy gruppy sluzhby puti g.Chelyabinsk.
(Railroads--Curves and turnouts)

MAKUROV, M.A.

Arrangement of switch curves according to chord ordinates.
Put' i put.khoz.4 no. 5:29-30 My '60. (MIRA 13:11)

1. Nachal'nik proyektno-izyskatel'skoy gruppy, Chelyabinsk.
(Railroad engineering)

MITCHELL, I. G.,

"Removal of Polymers and Sol. from Polymers" (Colloids and Polymers) 1
Separation and Removal of Heavy Organic Solids." (Separation and Removal
of Solids from Polymers) (Candidate of Technical Sciences) 1964

SO: 1-1036 25 Mar 66

DETSAKYAN, Ashot Kirillovich, inzh.; MAKUROV, Boris
Dmitrovich, inzh.; RUSAKOVA, L.Ya., ved. red.

[Pipeline crossings over swamps] Perekhody magistral'-
nykh truboprovodov cherez bolota. Leningrad, Nedra,
1965. 214 p. (MIRA 18:7)

The Operation of the Lining of a Rotary
Refining Furnace

SOV/131-59-4-7/16

Orsko-Khalilovskiy metallurgicheskiy kombinat (Orsko-
Khalilovskiy Metallurgical Kombinat)

Card 3/3

The Operation of the Lining of a Rotary
Refining Furnace

SOV/131-59-4-7/16

plant (GOST 1598-53) and the refining zone with highly aluminous bricks of the Podol'sk works (ChMTU 3207-52). The lining is performed according to figure 1. The furnace operates in campaigns of various duration. The causes of the interruptions are given in the table. Also the repair work is listed and the lining of the refining zone was carried out according to figure 2. Conclusions: The most considerable wear and tear of the lining of the rotation furnace OKhMK was observed in the beginning of the refining zone which is due to the influence of slags with an increased content of iron oxides. Highly aluminous bricks with an Al_2O_3 -content of more than 75%, which were recommended by the UNIIO³ and produced by the Podol'sk works of refractories, exhibit a good stability. Large lumps which are formed on the melting of the scums exert a detrimental influence upon the working of the lining in the regeneration zone. There are 2 figures, 1 table, and 4 references, 3 of which are Soviet.

ASSOCIATION: TsNIICHERMET

Card 2/3

15(2)

AUTHORS:

Lur'ye I. L., Knyazev, V. F.,
Makurov, A. V.

SOV/131-59-4-7/16

TITLE:

The Operation of the Lining of a Rotary Refining Furnace
(Sluzhba futerovki vrashchayushcheysya krichnoy pechi)

PERIODICAL:

Ogneupory, 1959, Nr 4, pp 168-171 (USSR)

ABSTRACT:

In the experimental industrial department of the Orsko-Khalilovskiy metallurgical Kombinat (OKhMK) a rotary refining furnace has operated since 1955 by means of which the technology of the refining process of chromium-nickel-iron ores of the Khalilovskiy rayon is being investigated. Also practical data on the working of the fire-proof lining are available. The operational conditions of the lining of a rotary refining furnace: The furnace is continuously charged with a mixture of brown iron ore and fine coke. The furnace is divided into three zones: The preparation zone up to 700°, the regeneration zone from 700 up to 1100° and the refining zone from 1100 up to 1300-1350°, which has most difficult operational conditions. Further the equipment of the furnace lining is described: The preparation and regeneration zone is lined with bricks with a high content of fire-clay of the Semiluki

Card 1/3

84374
R/106/60/000/006/007/013
A169/A026

The Density of Recording Electric Pulses on a Ferromagnetic Carrier

sity H above the gap of the recording head. The magnitude of the magnetic flux was determined according to the method of A.A. Kharkevich (Ref. 1). Based on his investigations, the author arrives at the following conclusions: 1) The density of information recording depends to a considerable degree on the number of magnetizing ampere-turns of the head. An increase of the ampere-turns leads to a reduction of the density. 2) The density of pulse recording is influenced considerably by the hysteresis loop squareness $\beta = H_m/H_c$ of the magnetic material. Increasing β leads to a reduction of the inclined sections in the magnetization curve of the carrier and results in a density increase. 3) Reducing the gap of the magnetic head has a small effect on the extent of the track, but has a great effect on the reproduction of information. From two heads with different gaps, the head with a smaller gap is less sensitive to superimposing prints (nalozheniye otpechatkov). Consequently, the head with a smaller gap makes it possible to reproduce information recorded at a greater density without a noticeable accumulation of output signals. There are 8 figures and 4 references: 3 Soviet and 1 German.

SUBMITTED: March 11, 1959

Card 2/2

84374

R/106/60/000/006/007/013
A169/A026

9.7910

AUTHOR: Makurochkin, V.G.

TITLE: The Density of Recording Electric Pulses on a Ferromagnetic Carrier

PERIODICAL: Elektrosvyaz', 1960, ¹⁴No. 6, pp. 33 - 38

TEXT: ¹⁰The author discusses the effect of some parameters of magnetic recording heads and ferromagnetic carriers on the density of information recording. This recording density depends on: a) the resolution of the recording head; b) the resolution of the reproducing head; c) the magnetic characteristics of the recording medium; and d) the electric characteristics of the signal to be recorded. The duration of the signal was not taken into account in this paper. For this reason, all considerations pertain to a pulse of infinitely small duration for the case of absent inertia processes. The author derives dependences to determine the density of recording electric pulses. Since ring-shaped magnetic heads with an intricate magnetic field are used almost exclusively in modern magnetic recording, a simplified model of a ring-shaped magnetic head was used to facilitate calculations. The method of conformal transformations of R. G. Ofengenden (Ref. 2) was used for obtaining an expression for the field inten-

Card 1/2

MAKURINA, Ye.I., kand. vet. nauk

Treating bronchopneumonia in young animals with penicillin.
Veterinariia 35 no.3:56-57 Mr '58. (MIRA 11:3)

1. Gruzinskiy nauchno-issledovatel'skiy institut zhivotnovodstva i
veterinariii.
(Pneumonia) (Penicillin)

MAKURINA, Ye.I., kandidat veterinarnykh nauk.

X-ray picture of the extremities of sheep in foot rot. Veterinariia
34 no.8:44-46 Ag '57. (MLRA 10:9)

1. Gruzinskiy nauchno-issledovatel'skiy institut zhivotnovodstva i
veterinariii.

(Foot rot in sheep)
(Extremities (Anatomy)--Radiography)

1. The study of the circulation of cyclones into the Arctic, bringing them from the North Atlantic. The variety of the circulation of cold fronts across Scandinavia and the northern part of the European USSR into the temperate and southern latitudes of the European USSR and western Siberia. Both these variations can be encountered frequently in the study of the circulation.

The study was based on charts of the mean pressure fields and mean circulation of the atmosphere, synoptic periods, daily synoptic charts, charts of pressure patterns of observations by polar stations, charts of pressure patterns at 500 mb level and catalogue of the circulation forms and types of circulation in the Arctic area of 1939-1960 were used. The authors discuss the development of processes over Europe and in the Arctic for the selected periods and also in the free nature of the circulation following them. The authors also show that the circulation patterns of the Arctic can be used in determining the circulation relationship between processes in the Arctic and in the temperate zone of the Atlantic-European sector. Orig. ent. has 3 figures and 1 table.

2. The study of the circulation of cyclones into the Arctic, bringing them from the North Atlantic. The variety of the circulation of cold fronts across Scandinavia and the northern part of the European USSR into the temperate and southern latitudes of the European USSR and western Siberia. Both these variations can be encountered frequently in the study of the circulation.

3. The study of the circulation of cyclones into the Arctic, bringing them from the North Atlantic. The variety of the circulation of cold fronts across Scandinavia and the northern part of the European USSR into the temperate and southern latitudes of the European USSR and western Siberia. Both these variations can be encountered frequently in the study of the circulation.

[illegible]

VINOGRADOV, N.D.; MAKURINA, G.A.

Synoptic conditions causing storms in the Spitsbergen area. Truly
AANII 230:17-28 '60. (MIRA 13:10)
(Spitsbergen region--Storms)

MAKURIN, V.I.

Production quality should be excellent. Tekst.prom. 25 no.212-10
F '65. (MIRA 1814)

1. Direktor Moskovskoy chulochnoy fabriki imeni Nogina.

L 23414-66

ACC NR: AP6004138

3

findings were statistically analyzed and led to the following conclusions: The hardening of steel 10G2SD with subsequent high-temperature tempering, while it indeed contributes to enhancing the static strength of this steel, reduces by 8-10 percent the dynamic strength (vibration resistance) of this steel as compared with hot-rolled specimens of the same steel; this is due to the increase in the susceptibility of heat-treated steel to stress concentrations, stemming from the natural defects of rolled surface. Subsequent experiments with specimens of heat-treated steel having a polished surface, however, showed that this shortcoming can be remedied by polishing the surface and the welded joints then obtained displayed a satisfactory vibration resistance. Orig. art. has: 2 tables, 3 figures.

SUB CODE: 11, 13/ SUBM DATE: 14Jul64/ ORIG REF: 003/ OTH REF: 000

Card

2/2 dls

L 23414-66 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l)
 ACC NR: AP6004138 (A) SOURCE CODE: UR/0125/66/000/001/0040/0042

AUTHOR: IJP(c) JD/HM/EM
 Makurin, V. A.; Lavochkin, G. V.

ORG: NIImostov LIIZhT

TITLE: Vibration resistance of butt joints of heat-treated 10G2SD steel

SOURCE: Avtomaticheskaya svarka, no. 1, 1966, 40-42

TOPIC TAGS: vibration stress, steel, weldability, cyclic load, stress concentration, metal heat treatment, low alloy steel/ 10G2SD steel

ABSTRACT: The suitability of heat-treated high-strength low-alloy steel 10G2SD (0.1% C, 1.0% Si, 1.56% Mn, 0.1% Cr, 0.15% Ni, 0.2% Cu, 0.033% S, 0.022% P) as bridge-building material is currently under study. This steel displays satisfactory weldability, low proneness to temper brittleness and a higher resistance to the rise and development of large cracks than hot-rolled steel of the same mark. However, the vibration resistance of the base metal in welded joints of this steel so far remains relatively uninvestigated. To fill this gap, the authors investigated the vibration strength of the base metal, the fatigue limit of butt joints and the degree to which the cohesion between the butt weld and the base metal affects vibration resistance. To this end the specimens were tested in a vertical TsDM-200 dynamic loading machine with a cyclic loading frequency of 324 cycles per minute until complete rupture. The

Card 1/2

UDC: 621.791.762:669.140:669-15

ILLEGIBLE

ILLEGIBLE

SOV/135-59-3-8/24

The Mechanical Properties of Welded Joints of "10G2SD (MK) Steel"

wire and the flux grades to be used. There are 5 tables,
7 graphs, 2 diagrams and 3 Soviet references.

ASSOCIATION: NII mostov (NII of Bridges)

Card 2/2

25(1)

SOV/135-59-3-8/24

AUTHORS: Shishkin, V.Yu., Navrotsky, D.I., Savol'jev, V.B., Candidates of Technical Sciences, and Makurin, V.A., Engineer

TITLE: The Mechanical Properties of Welded Joints of "10G2SD (MK) Steel" (Mekhanicheskiye svoystva svarnykh soyedineniy stali 10G2SD(MK))

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 3, pp 12-15 (USSR)

ABSTRACT: The described experimental investigation of the base metal and welded joints of the low-alloy steel "10G2SD(MK)" ("GOST 5058-57"-standard) proved its good weldability, and its suitability for steel frame structures including railway bridges. The cold-brittleness point of this steel is below - 60° C. The composition of the specimens (Table 1) was the following (in %): 0.12-0.14 C, 1.36-1.58 Mn, 0.72-1.0 Si, 0.024-0.032 P, 0.027-0.042 S, 0.10-0.30 Cr, 0.17-0.23 Ni, 0.12-0.33 Cu. The mechanical properties and the details of the welding technology applied in the experiments are given. Recommendations are made as to the combinations of the electrode

Card 1/2

Vibration Resistance of Butt-Welded Joints of "NL-2"-Steel 135-58-8-4/20

technology). The cooling rates for zones adjacent to seams are recommended to be from 5.6 to 18.3 degrees per second. There is 1 diagram, 4 graphs and 8 tables.

ASSOCIATION: NII mostov (Scientific Research Institute of Bridges)

1. Welded joints--Vibration resistance

Card 2/2

MAKURIN, V. A.

AUTHORS: Savel'yev, V. N., Navrotsky, D. I; Shishkin, V. Yu., Candidates of Technical Sciences, and Makurin, V. A., Engineer. 135-58-8-4/20

TITLE: Vibration Resistance of Butt-Welded Joints of "NL-2"-Steel (Vibratsionnaya prochnost' svarnykh stykovykh soyedineniy iz stali NL2)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 8, pp 14 - 18 (USSR)

ABSTRACT: The article gives results of investigations into the vibration resistance of butt and T-welded joints in "NL-2"-steel (composition given in table 1). A detailed description of the technology of the tests is given. The following conclusions are made: equal resistance of butt-welded joints in "NL-2" steel under static and vibration load can be ensured by the use of "AN-10" flux with "SV-08", "Sv-08GA", "Sv-12M", electrodes and "OSTs-45" and "AN-348" fluxes with "Sv-08GA" electrodes. It was possible to obtain the required seam surface by proper selection of the welding process parameters without additional mechanical treatment (only necessary in case of violation of this

Card 1/2

SOV/137-58-11-22610
An Investigation of the Vibrational Strength of Welded Connections (cont.)

NL-2 steel can be as strong as the parent metal both under static and vibrational loads. By appropriate selection of welding procedures the shape of the weld may be controlled so as to produce a connection which is equivalent in strength to the parent metal without requiring any additional mechanical treatment [machining]. If the above condition is not observed, or if the welding conditions are not carefully observed, local mechanical treatment [machining] of the connection becomes mandatory. The NL-2 steel lends itself to welding at conditions ranging from $q_n/V=7000$ cal/cm to $q_n/V=13500$ cal/cm, i. e., conditions which produce cooling rates in the weld zone ranging from 5.6 to 18.3°C/sec. WC equivalent in strength to the parent metal may be obtained by employing the following welding materials: a) AN-10 flux in conjunction with welding rods of the Sv-08A, Sv-08GA, and Sv-12M types; b) fluxes OSTs-45 and AN-348 in conjunction with welding rods of the Sv-08GA type. Since the NL-2 steel is sensitive to stress concentration, it is essential that in the course of future investigations the effect of residual stresses on the strength of the WC be verified, the technological and strength characteristics of WC of 30-mm thick sheets be determined more precisely, and that additional TUPIM-sv-55 technical welding specifications be developed for the design and fabrication of welded-bridge structures.

Card 2/2

V. S.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 11, p 113 (USSR) SOV/137-58-11-22610

AUTHORS: Savel'yev, V. N., Navrotsky, D. I., Makurin, V. A., Shishkin, V. Yu.

TITLE: An Investigation of the Vibrational Strength of Welded Connections in Low-alloyed Steel of the NL-2 Type (Issledovaniye vibratsionnoy prochnosti svarnykh soyedineniy iz nizkolegirovannoy stali marki NL-2)

PERIODICAL: Soobshch. N. i. in-t mostov pri LIIZhT, 1957, Nr 55, 28 pp, ill.

ABSTRACT: In order to obtain more accurate parameters for technological processes of welding of steel NL-2, and to establish the conditions necessary to obtain welded connections (WC) which, under operational conditions involving alternating loading, are equivalent in strength to the parent metal, the effect of the rate of cooling (RC) on the R_C and a_k values of the weld and of the adjoining zone was investigated together with the effect of various welding rod materials on the mechanical properties of the WC. Preliminary to testing, metal plates (600x400x20-30 mm), which had been welded with UONI-13/45 electrodes in an automatic welding machine as well as manually (seven combinations of flux and welding rods were employed), were subjected to an X-ray examination. It was established that butt-welded connections made of

Card 1/2

Subject : USSR/Engineering-Welding AID P - 5063
 Card 1/1 Pub. 107-a - 3/11
 Authors : Shishkin, Yu., V. A. Makurin, and R. Z. Manilova
 Title : Testing T-joints under dynamic loading
 Periodical : Svar. proizv., 6, 11-13, Je 1956
 Abstract : The authors present the results of their investigation of T-joints [used in bridge construction and elsewhere] exposed to alternating loads. The methods of utilizing the fatigue factor in design are discussed, and the valuable practical suggestions are made. Comprehensive table of tests with 7 photos; 4 formulae. Five Russian references (1932-54) and 1 American (1954).
 Institution : Scientific Research Institute of Bridges (NII mostov).
 Submitted : No date

MAKURIN, Nikolay Dmitriyevich; MIKAEI'YAN, T.S., red.

[Manual on wages and work norms in the repair and technical servicing of agricultural machinery] Spravochnik po opiate truda i normirovaniu na remonte i tekhnicheskoi obsluzhivani sel'skokhoziaistvennoi tekhniki. Moskva, Rossel'khozizdat, 1964. 226 p. (MIRA 18:1)

SHIKHOV, V.N.; ANISIMOV, V.A.; Prinimali uchastiye: MAKURIN, P.I.;
NIKULINA, L.P.; TKACHEV, V.V.; NEMTSEV, I.I.; MIKHEYEVA, G.P.;
GUSEV, V.P.; TARASOV, A.I.

Measures for the control of static electricity in rubber cement
coaters. Kauch. i rez. 24 no.11:42-45 '65. (MIRA 19:1)

1. Ural'skiy politekhnicheskiiy institut, Sverdlovsk, i Sverdlovskiy
zavod rezinovykh tekhnicheskikh izdeliy.

MAKURIN, P.I.; MIKHAYLOVA, V.L., inzh., retsenzent; ZIGEL',
L.A., inzh., red. KNORRE, B.V., inzh., red.; KOKIN, B.S.,
inzh., red.

[Safety techniques in foundries] Tekhnika bezopasnosti v
liteinykh tsekhakh; spravochnik. Moskva, Mashinostroenie,
1965. 307 p. (MIRA 18:9)

SHIKHOV, V.N.; MAKURIN, P.I.; NIKULIN, V.F.

Shielding the dangerous zone of circular saws. Der. prom. 12
no.3:25-26 Mr '63. (MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.
(Circular saws--Safety measures)

MAKURIN, Pavel Ivenovich; GALAKTIONOV, A.T., kand. tekhn.nauk,
retsenzent; KRUTIKHOVSKIY, V.G., inzh., red.; DUGINA, N.A.,
tekhn. red.

[Handling and use of gas cylinders]Ekspluatatsiia gazovykh
ballonov. Moskva, Mashgiz, 1962. 111 p. (MIRA 15:10)
(Gas cylinders)

ANAN'IN, Anatoliy Andreyevich; BRILAKH, Mikhail Mikhaylovich; CHERNO-
BROVKIN, Viktor Petrovich; FILIPPOV, A.S., kand.tekhn.nauk,
retsenzent; MAKURIN, P.I., kand.tekhn.nauk, retsenzent; LUZIN,
P.G., inzh., retsenzent; ZIMIN, V.M., inzh., retsenzent; FUGINA,
N.A., tekhn.red.

[Cupola furnace operator] Vagranshchik. Izd.2., dop. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 175 p.
(MIRA 12:12)

(Cupola furnaces)

MAKURIN, Pavel Ivanovich; PINEYEV, V.F., inzh., retsenzent; VOLPYANSKIY,
L.M., inzh., red.; DUGINA, N.A., tekhn.red.

[Safety techniques in foundries] Tekhnika bezopasnosti v liteinykh
tsekhakh. Pod red. L.M.Volpianskogo. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1959. 62 p. (Nauchno-populiarnaya
biblioteka rabochego-liteishchika, no.30). (MIRA 13:5)
(Foundries--Safety measures)

MAKURIN, P. I., Cand. Tech. Sci.

"Safety Engineering Requirements" p. 151-159 in book
Increasing the Quality and Efficiency of Machinery. Moscow, Mashgiz, 1957,
626pp.

MAKURIN, P.I.

ANAN' IN, Anatoliy Andreyevich; BRILAKH, Mikhail Mikhaylovich; CHERNOBROVKIN, Viktor Petrovich; FILIPPOV, A.S., kand.tekhn.nauk, retsenzent; MAKURIN, P.I., kand.tekhn.nauk, retsenzent; ZIMIN, V.M., inzh., retsenzent; SARAFANNIKOVA, G.A., tekhn.red.

[Cupola furnace operator] Vagranshchik. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 151 p. (MIRA 11:2)
(Cupola furnaces)

KUZEL'EV, Mikhail Yakovlevich; SKVORTSOV, Aleksey Anatol'yevich;
 SMEITAKOV, Nikolay Nikolayevich; DUBITSKIY, G.M., doktor
 tekhn. nauk, retsenzent; ZOBININ, B.F., kand. tekhn. nauk,
 retsenzent; KOROTKOV, V.G., kand. tekhn. nauk, retsenzent;
 LEVCHENKO, P.V., kand. tekhn. nauk, retsenzent; MAKURIN, P.I.,
 kand. tekhn. nauk, retsenzent; PASTUKHOV, A.I., kand. tekhn.
 nauk, retsenzent; PORUCHIKOV, Yu.P., kand. tekhn. nauk, re-
 tsenzent; KOZENBERG, I.A., kand. tekhn. nauk, retsenzent;
 SERGEEICHEV, N.F., kand. tekhn. nauk, retsenzent; FILIPPOV,
 A.S., kand. tekhn. nauk, retsenzent; YAROSHENKO, Yu.G., kand.
 tekhn. nauk, retsenzent; BAZAROVA, N.V., inzh., retsenzent;
 BLANK, E.M., inzh., retsenzent; VOLFYANSKIY, L.M., inzh.,
 retsenzent; ZAKHAROV, B.P., inzh., retsenzent; MYSHALOV, S.V.,
 inzh., retsenzent; RAZUMOVA, M.S., inzh., retsenzent;
 SHABALIN, L.A., inzh., retsenzent; SHKUNDI, R.M., inzh., re-
 tsenzent; DUGINA, N.A., tekhn. red.

[Handbook of foundry practice] Spravochnik rabochego-
 litetshchika. Tzd.3. Moskva, Mashgiz, 1961. 584 p.
 (MIRA 15:4)
 (Founding--Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700035-6

Automatic control of the fuel feeder system to free-piston gas
generators. Inform. sbor. TSNIME no. 94:17-33 '63. (MIRA 17:4)

MAKURIN, P.A.

Effect of the length of pneumatic chains on the lagging of a
command impulse. Trudy TSNIIMF 8 no. 44:79-83, 62. (MIRA 16:1)
(Pneumatic control)

MAKURIN, P.A.

Serious shortcomings in the production of scientific technical
motion pictures. WFO 2 no. 6:45-46 of '60.
(MIRA 14:2)

1. Predsedatel' sektora tekhniki bezopasnosti oblasti
Nauchno-tekhnicheskogo obshchestva mashinostroyeniya
Sverdlovsk.
(Motion pictures in industry)

MAKURIN, P.

Card 2/2

paper tape in the same order as the elements appear in the TAE-16M monthly table of radionode data. Using the program outlined in the article, checks were made on 1000 radionodes. As a result, discrepancies were established between machine-checked data and manually processed data and their origin and magnitude in per cent. At present, the ANNI is using the program described in checking about 20% of the verifiable data from atmospheric temperature sounding. One shortcoming of the method is the necessity for comparing the computer results with the manually processed results for a radionode. Orig. art. has: 4 formulas, 2 tables, and 1 figure.

[WA-N04]

SUB CODE: 04, 09 / SUBM DATE: none/

ACC NR: AT6036168

ACC NR: AT6036186 SOURCE CODE: UR/3116/66/277/000/0068/0074

AUTHOR: Makurin, N. V.

ORG: none

TITLE: The use of a computer in checking data from the temperature sounding of the atmosphere

SOURCE: Leningrad. Arkkticheskiy i antarkkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 277, 1966. Chislennyye metody issledovaniya gidrometeorologicheskikh usloviy v Arktike i tsentral'noy yevrazii i yevropeyskoy chasti Azii. Mashin (Numerical methods of studying hydrometeorological conditions in the Arctic with the use of electronic digital computers), 68-74

TOPIC TAGS: *ATMOSPHERIC TEMPERATURES*, computer, computer application, computer program, radiosonde, meteorology/Ural 2 COMPUTER

ABSTRACT: This article deals with the problems involved in the machine checking and analysis of radiosonde observation data and the partial solution of these problems using a Ural-2 computer. An algorithm is suggested in which checking of radiosonde data is accomplished by computing all meteorological elements from verified initial data consisting of: ground-level pressure, temperature, and humidity; temperature and humidity on standard isobaric surfaces; and the height, temperature, and humidity of points. These data are entered on 11 punch cards for each radiosonde. The procedures and program used in making the check are outlined. The results are punched out on Card 1/2

UDC: none

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Formation of packers in air drilling and criterion of the selection
of methods for controlling them. Izv. vys. ucheb. zav. i geol. i
razv. 8 no.9:151-153 S 1965.
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1. Moskovskiy Institut neftekhimicheskoy i gazovoy promyshlennosti
Imeni I.M. Gubkina.

[Air drilling of exploratory holes] Burenie geologorazvedochnykh skvazhin s produktov vozdukhom. [By] B.S. Filatov
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RIIATOV, B.S.; MAKURIN, N.S.; GAO LU-LIN; [Kao Lu-Lin]; BAZHENOV,
V.S.; BUBNOV, Ye.S., red.
[Drilling wells using surfactants and aerated liquid]
Burenie skvazhin s primeneniem poverkhnostno-aktivnykh
veshchestv i aerirovannoi zhidkosti. Moskva, 1962. 48 p.
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1, Russia (1923- U.S.S.R.) Ministerstvo Geologii i kh-
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MAKURIN, N. S., Cand Tech Sci -- (diss) "Boring of prospecting holes with hard-alloy air-cooled bits." Moscow, 1960. 24 pp; (Ministry of Higher and Secondary Specialist Education KSEER, Moscow Order of Labor Red Banner Inst of Petrochemical and Gas Industry im I. M. Gub-kin); 130 copies; price not given; (KL, 52-60, 120)

SOV/132-59-6-4/16
Aerodynamic Features of the Circulating System of the Air-Flushed
Bore-Holes in Prospecting Core Drilling

where d_e is the effective diameter (in case of tubes of round section equal to their internal diameter in m); v - the volumetric speed of the gas flow in tubes in m/sec; ρ - dimensionless factor of local resistance in tube junctions; ρ - gas density in kg/cubic m. The authors give a detailed description of calculations of air pressure losses for different parts of the bore holes, tubes, annular junctions, etc. They also describe the practical applications of these calculations. There are 5 tables, 1 diagram, 1 graph and 5 references, 3 of which are Soviet and 2 American.

ASSOCIATION: MGRI

Card 3/3

Card 2/3

$$\lambda = \frac{\sqrt[3]{d_3}}{0.009407}$$

where: P - losses of pressure in kg/sq m; L - the tubes length in m; - the dimensionless resistance factor calculated from the Weymouth (Veymunt) equation

$$\Delta P = \left(\frac{d_3}{L} + \left\{ \frac{2g}{f \cdot v^2} \right\} \right) - f \cdot L$$

b / for bore-hole tubes:

$$\Delta P = \lambda \frac{L}{d_3} \cdot \frac{2}{f \cdot v^2} + f \cdot L;$$

annular space:

Aerodynamic Features of the Circulating System of the Air-Flushed Bore-Holes in Prospecting Core Drilling
SOV/132-59-6-4/16

Card 1/3

ABSTRACT: The authors find the graphics and formulas proposed by J.O. Scott (U.S.) far too cumbersome for determining losses of air pressure in air-flushed bore-holes in function of dimensions of bits, tubes and the depth of the bore-hole. The plotting of graphics was based on formulas derived from the Bernoulli equation. These formulas were calculated for the whole length of tubing, and did not take into consideration local losses of air pressure at tube junctions, rings etc. The authors cite from Soviet technical literature the method of calculating air-pressure losses by degrees (stages), using the Darcy equation for non-condensable liquids. The formulas are as follows: a / for

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 6, pp 18 - 27 (USSR)

TITLE: Aerodynamic Features of the Circulation System of the Air-Flushed Bore-Holes in Prospecting Core Drilling

AUTHORS: Makurin, N.S. and Filatov, B.S.

14(5)

SOV/132-59-6-4/16

In the extraction of stalled drill pipes, mechanical vibrators with toothed disks made of carbon steel have also found wide application. The design of a bottom-hole vibrator of the ZV-2 type is shown in Fig. 5. The author describes the construction of this vibrator and states that the best results are produced by a vibrator having a disk with 6 carbon steel teeth. A method of sinking this vibrator with the aid of a fishing tool is outlined. In addition, there are other types of modernized bottom-hole vibrators whose rod and coupling have a conduit permitting the drilling fluid to circulate. In a drawing (Fig. 6) the author shows how the vibrator, attached to a drill or casing pipe, is used for eliminating stalls of drill pipes. Surface vibratory machines can be used in cases of tool failure at depth not exceeding 300-350 meters. At a greater depth the use of submersible vibrators becomes unavoidable. In certain cases vibratory machines can also be used for sinking or lifting casing pipes. The use of vibratory machines facilitates core drilling, accelerates it, and reduces drilling costs. There are 6 figures.

card 3/3

SOV/92-59-3-4/44

Vibratory Machines (Cont.)